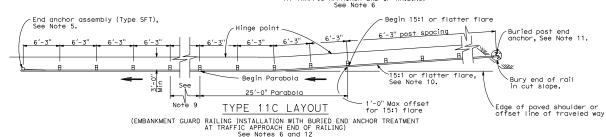


L1:10 or flatter slope Caltrans approved Flared Terminal System End Treatment See Note 9 AC Dike, Type F See Note 12 Additional AC Dike, Type C 25'-0" Min, See Note 12 AC Dike, Type C See Note 12

TYPE 11B LAYOUT

(EMBANKMENT GUARD RAILING INSTALLATION WITH FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING)



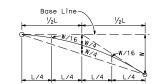
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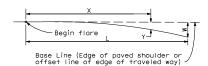
- 1. Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1, and A77C2.
- 2. Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
- 3. Except as noted, line posts are 6" \times 8" \times 6'-0" wood with 6" \times 8" \times 1'-2" wood blocks. W6 \times 9 steel posts, 6'-0" in length, with 6" \times 8" \times 1'-2" notched wood blocks or recycled plastic blocks may be used for 6" \times 8" \times 6'-0" wood post with 6" \times 8" \times 1'-2" wood blocks where applicable and when specified.
- Direction of adjacent traffic indicated by
- 5. For End Anchor Assembly (Type SFT) details, see Standard Plan A77H1.
- 6. Layout Types 11A, 11B or 11C are typically used where guard railing is recommended to shield embankment slopes and a crashworthy end treatment is required for only one direction of traffic.

- 7. In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system end treatment to be used will be shown on the Project Plans.
- 9. Dependent on site conditions (embankment height and side slope), construction of additional guard railing (length equal to multiples of 12'-6" with 6'-3" post spacing) may be advisable.
- 10. The 15:1 or flatter flare used with buried end anchors is based on the edge of the paved shoulder or offset line of edge of the traveled way. The length of guard railing within the 15:1 or flatter flare is based on site conditions and should be a length equal to multiples of 12'-6".
- 11. For details of the buried post end anchor used with Type 11C Layout, see Standard Plan A77I2.
- 12. Where placement of dike is required with guard railing installations, see Standard Plan A77C4 for dike positioning details.

DIST COUNTY POST MILES SHEET TOTAL TOTAL PROJECT NO. SHEETS Randell D. Hiatt REGISTERED CIVIL ENGINEER Randell D. Hiatt May 1, 2006 o, C50200 PLANS APPROVAL DATE Exp. 6-30-07 The State of California or its officers or agents shall not be responsible for the accuracy CIVIL electronic capies of this pla To get to the Caltrans web site, go to: http://www.dot.ca.gov

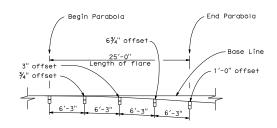


TYPICAL PARABOLIC LAYOUT



= Offset from base line W = Maximum offset X = Distance along base line wy2 L² L = Length of flare

PARABOLIC FLARE OFFSETS



TYPICAL FLARE OFFSETS FOR 1 FOOT MAX END OFFSET

> STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR **EMBANKMENTS**

NO SCALE

A77E1